

MCS[®] 51/251 Microcontroller Architecture Development Tools Line Card

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MCS[®] 51/251 Microcontroller Architecture Development Tools Line Card

Description	Vendor	8X3X	8X5X	8XC5X	8XC5XFX	8XC5XGX	8XC51RX	8XC51SL	80C251SB	US	Europe	APAC	Japan
EMULATORS													
Emulator	Advanced Microcomputer Systems	X	X	X						(305) 784-0900			
Emulator	American Arium	X	X	X						(714) 731-1661			
Emulator	Ashling Microsystems, Ltd.	X	X	X	X						353 61 33 44 66		
Emulator	Cactus Logic	X	X	X	X					(800) 847-1998	** (818) 337-4547		
Emulator	Celbo Ltd.	X	X	X		X				(314) 830-4084	972 9 555387		
Emulator	Deemax	X	X	X							886 35 723 311		
Emulator	Dr. Krohn & Stiller	X	X		X	X		X			49 8961 000012		
Emulator, R/T In-Circuit	Emulation Technology	X	X							(408) 982-0660			
Emulator	Hewlett-Packard	X	X	X	X					(800) 447-3282	31 20 547 9999	852 848 7070	
Emulator	HI-LO Systems Research Co., Ltd.	X	X	X	X							886 27 640 215	
Emulator	HiTech Equipment Corp.	X	X	X	X					(619) 566-1892			
Emulator	Hitex	X	X	X	3X	3X		X	X	(408) 451-3986	49 721 96280		
Emulator, In-Circuit	Huntsville Microsystems	X	X	X	X			X		(205) 881-6005			
Emulator	Iwasaki Electronics Co., Ltd.	X	X	X						(813) 863-3025			
Emulator	iSystem GmbH	X	X	X	X	X		X			49 8131 25083		
Emulator	Kontron	X	X	X	X						49 8165 77444		
Emulator	Lauterbach Datentechnik	X	X	X	3X	3X		X		(508) 620-4521	49 8104 8943-28		
Emulator	MetaLink	X	X	X	3X	3X	X	X	X	(602) 926-0797	49 8091 56960		
Emulator	Microtek	X	X	X	X	X				(503) 645-7333		886-35-776443	
Emulator	MicroComputer Control	X	X	X						(609) 466-1751			
Emulator	Microtime Computer Inc.	X	X	X							886 2 8811791		
Emulator	Nohau Corp.	X	X	X	3X	3X	X	X	X	(408) 866-1820	46 40 922425		81 (03) 3405-0511
Emulator	Orion Instruments	X	X	X	X	X	X			(800) 729-7700	** (408) 747-0440		
Emulator, Real-Time	Raisonance	X	X	X	X						33 76 08 18 16		
Emulator	Siemens SME	X	X	X							49 8941 440		
Emulator	Signum Systems	X	X	X	3X	3X		X		(805) 371-4608	44 1254 682092		
Emulator	Sophia Systems & Technology	X	X	X						(800) 824-9294	** (415) 493-6700		
Emulator	Sun-Shine Electronics	X	X	X								886-2766-0206	
Emulator	Tribal Microsystems, Inc.	X	X	X	X					(510) 623-8859			
Emulator	Vall Silicon Tools	X	X	X	X					(305) 570-5580			
SOFTWARE ASSEMBLERS/COMPILERS													
Assembler	Universal Cross Assemblers	X	X	X	X	X				(506) 847-0681	44 1703 631 441		
Assembler, Cross	Lear Com Company	X	X	X	X	X				(303) 232-2226			
Assembler, Macro	Avocet Systems Inc.	X	X	X	3X	3X		X		(800) 448-8500	** (207) 236-9055		
Assembler, Macro	Franklin Software, Inc.	X	X	X	3X	3X	X	X	X	(408) 296-8051			
Assembler, Macro	Keil	X	X	X	3X	3X	X	X		(800) 348-8051	49 8946 5057	65-749-2162	
Assembler, Macro Cross	2500 AD Software	X	X	X						(719) 395-8683			
Assembler/Linker/Librarian	BSO/Tasking	X	X	X	3X	3X	X	X	X	(617) 320-9400	31 33 55 8584		81-334-050511
Assembler/Linker/Librarian	Production Languages Corp.	X	X	X	3X	3X	X	X	X	(800) 525-6289	** (817) 599-8363		
Compiler, ANSI C	Keil	X	X	X	3X	3X	X	X	X	(800) 348-8051	49 8946 5057	65-749-2162	
Compiler, ANSI C	Production Languages Corp.	X	X	X	3X	3X	X	X		(800) 525-6289	** (817) 599-8363		
Compiler, Basic	Systronix, Inc.	X	X	X	X					(801) 534-1017			
Compiler, C	2500 AD Software	X	X	X	X	X				(719) 395-8683			
Compiler, C	Archimedes Software	X	X	X	X	X	X	X	X	(206) 822-6300			
Compiler, C	Avocet Systems Inc.	X	X	X	X	X	X	X		(800) 448-8500	** (207) 236-9055		
Compiler, C	Binary Technology	X	X	X						(508) 369-9556			
Compiler, C	BSO/Tasking	X	X	X	X	X	X	X	X	(617) 320-9400	31 33 55 8584		81-334-050511
Compiler, C	Embedded Systems Products	X	X	X	X					(713) 728-9688			
Compiler, C	Franklin Software, Inc.	X	X	X	3X	3X	X	X		(408) 296-8051			
Compiler, C	IAR Systems	X	X	X	3X	3X		X		(415) 765-5500	46 18 16 78 00		81 (03) 293 4711

Description	Vendor	8X3X	8X5X	8XC5X	8XC5XFX	8XC5XGX	8XC51RX	8XC51SL	80C251SB	US	Europe	APAC	Japan
Compiler, C	Iota Systems	X	X	X						(702) 831-6302			
Compiler, C	Intermetrics	X	X	X						(617) 661-0072			
Compiler, C	Micro Computer Control	X	X	X	3X	3X		X		(609) 466-1751			
Compiler, C	RTS	X	X	X	3X	3X		X	X		44 1624 623 841		
Compiler, Forth Cross	Laboratory Microsystems Inc.	X	X	X	3X	3X		X		(310) 306-7412			
Compiler, PL/M	BSO/Tasking	X	X	X	3X	3X	X	X		(617) 320-9400	31 33 55 8584		81-334-050511
Disassembler	Lear Com Company	X	X	X	X	X				(303) 232-2226			
DEVELOPMENT KITS													
Software Development Environment	Forth Inc.	X	X	X	X	X				(310) 372-8493	44 9323 52744		
8051 Development Tools Kit	Franklin Software, Inc.	X	X	X	3X	3X	X	X	X	(408) 296-8051			
Code Generator	Inform Software	X	X	X	3X	3X		X		(800) 929 2815	49 2408 9456180		81 03-5688-6800
8051 Development Tools Kit	Keil	X	X	X	3X	3X	X	X	X	(800) 348-8051	49 8946 5057	65-749-2162	
DOS-Based Windowing Platform	Rigel Corporation	X	X	X	X	X				(904) 373-4629			
SOFTWARE DEBUG TOOLS													
Debugger	BSO/Tasking	X	X	X	3X	3X	X	X	X	(617) 320-9400	31 33 55 8584		81-334-050511
Debugger	Tektronix	X	X	X	X	X	X	X		(800) 426-2200 X316	** (503) 627-7111 X316		
Debugger, Remote	Hitek	X	X	X	X	X		X		(408) 451-3986	49 7219 6280		
Debugger, Source Level	Production Languages Corp.	X	X	X	3X	3X	X	X	X	(800) 525-6289	** (817) 599-8363		
Debugger, Source Level	RTS	X	X	X	3X	3X		X			44 1624 623 841		
Debugger/Development Tool	Ramtex	X	X	X	X	X					45 4550 5357		
Fuzzy Logic Modification Module	Inform Software	X	X	X	X	X	X	X	X	(800) 929 2815	49 2408 9456180		81 03-5688-6800
Instruction Simulator	Production Languages Corp.	X	X	X	3X	3X	X		X	(800) 525-6289	** (817) 599-8363		
ROM/RAM Simulator	Emulation Technology	X	X	X	X	X		X		(408) 982-0660			
Simulator	Archimedes Software	X	X	X	3X	3X		X	X	(206) 822-6300			
Simulator	HiTech Equipment Corp.		X							(619) 566-1892			
Simulator	Hitek	X	X	X	X	X		X		(408) 451-3986	49 7219 6280		
Simulator	Micro Computer Control	X	X	X						(609) 466-1751			
Simulator	Microtime Computer Inc.	X	X	X							886 2 8811791		
Simulator/Debugger	2500 AD Software	X	X	X	X	X				(719) 395-8683			
Simulator/Debugger	Archimedes Software	X	X	X	X	X	X	X	X	(800) 338-1453			
Simulator/Debugger	Franklin Software, Inc.	X	X	X	3X	3X	X	X	X	(408) 296-8051			
Simulator/Debugger	IAR Systems	X	X	X	3X	3X		X		(415) 765-5500	46 1816 7800		81 (03) 293-4711
Simulator/Debugger	Keil	X	X	X	3X	3X	X	X	X	(800) 348-8051	49 8946 5057	65-749-2162	
Simulator/Debugger	Lear Com Company	X	X	X	X	X				(303) 232-2226			
Simulator/Debugger	Raisonance	X	X	X	3X	3X		X			33 76 08 18 16		
Simulator/Debugger, High Level	Avocet Systems Inc.	X	X	X	3X	3X		X		(800) 448-8500	** (207) 236-9055		
Simulator/Debugger, High Level	ChipTools Inc.	X	X	X		3X		X		(905) 274-6244			
SIMULATION MODELING TOOLS													
Simulation Modeling Tool	Logic Modeling Inc.	X	X	X						(800) 445-1888	** (503) 690-6920		
Simulation Modeling Tool	Rigel Corporation	X	X	X	X	X				(904) 373-4629			
OPERATING SYSTEMS													
Real Time Operating System	Byte-BOS Integrated Systems	X	X	X						(800) 788-7288			
Real Time Operating System	Embedded Systems Products, Inc.	X	X	X	X	X		X		(713) 728-9688			
Real Time Operating System	Forth, Inc.	X	X	X	X					(800) 553-6784	44 1932 829 460		
Real Time Operating System	Keil	X	X	X	X	X	X	X	X	(800) 348-8051	49 8946 5057	65-749-2162	
Real Time Operating System	QNX Software Systems Ltd.	X	X	X						(613) 591-0931	44 703 611800		
Real Time Operating System	U.S. Software	X	X	X	X					(800) 356-7097	** (503) 641-8446		
RTOS Kernel	CMX Company	X	X	X	3X	3X		X		(508) 872-7675			
HARDWARE ADAPTERS AND ACCESSORIES													
Adapter	3M	X	X	X	X	X	X	X	X	(800) 225-5373	** (612) 737-5164		
Adapter	Emulation Technology	X	X	X	X	X	X	X	X	(408) 982-0660			
H/W Adapter & S/W Disassembler	Fluke Corporation	X	X	X	X					(800) 44-FLUKE	31 40 644200	65-334-1703	81-3-3434-0181

MCS® 51/251 Microcontroller Documentation

TITLE	Literature Order #	FaxBACK Document #	TITLE	Literature Order #	FaxBACK Document #
PRODUCT INFORMATION			APPLICATION NOTES		
MCS® 51 Microcontroller Family Architecture Fact Sheet	272739	2369	Introducing the MCS® 251 Microcontroller - 8XC251SB	272670	
MCS® 51 Microcontroller Family Line Card	272273	2373	Migrating MCS® 51 Microcontroller to MCS® 251 Microcontroller - Maximize Performance thru S/W	272671	
MCS® 251 Microcontroller Info Guide:		2398	Migrating MCS® 51 Microcontroller to MCS® 251 Microcontroller - S/W and H/W Considerations	272672	
Info Guide: 8XC51FX Family (8XC51FA/FB/FC)		2700	AP-476 How to Implement 12C Serial Communication		
Info Guide: 87C51SL Low-Power Keyboard Controller		2711	Using Intel MCS® 51 Microcontrollers AP-70 Using the	272319	
Info Guide: 3-Volt MCS® 51 Microcontroller Family		2723	Intel MCS® 51 Microcontroller Boolean Processing Capabilities	203830	
Press Release: MCS® 51 Microcontroller Product Announcement		2135	AP-223 8051-Based CRT Terminal Controller	270032	
DATA SHEETS			AP-252 Designing with the 80C51BH	270068	
MCS® 251 Microcontroller - Datasheet 8XC251SB	272616		AP-410 Enhanced Serial Port on the 83C51FA	270490	
MCS® 51 Microcontroller Programmer's Guide and Instruction Set	270249		AP-415 83C51FA/FB PCA Cookbook	270609	
8051, 8052 and 80C51 Hardware Description	270252		AP-425 Small DC Motor Control	270622	
8XC51FX Hardware Description	270653		AP-429 83C152 Global Serial Channel in CSMA/CD Mode	270720	
8XC51SL/Low-Voltage 8XC51SL Hardware Description	272268		Low-Voltage Embedded Design	272324	
8XC52/54/58 Hardware Description	270783		AP-476 How to Implement 12C Serial Communication Using Intel MCS® 51 Microcontrollers	272319	
83C152 Hardware Description	270427		TOOLS		
MCS® 51 8-Bit Control-Oriented Microcontroller	272318		Development Tools Handbook	272326	
8XC52/54/58 CHMOS Single-Chip 8-Bit Microcontroller	272336		ApBuilder with MCS® 51 Microcontroller Support	272216	
8XL52/54/58 Commercial/Express Low-Voltage CHMOS Single-Chip 8-Bit Microcontrollers	272468		EV80C51FX: Evaluation Board Fact Sheet		2041
87C51/80C51BH/80C31BH CHMOS Single-Chip 8-Bit Microcontroller	272335		EV80C51GX: Evaluation Board Fact Sheet		2038
8XC51FX CHMOS Single-Chip 8-Bit Microcontrollers	272322		87C51, 87C51FX, 87C54, 87C58: 8-Bit Microcontroller Programming Support		2587
8XL51FA/FB/FC Commercial/Express Low-Voltage CHMOS Single-Chip 8-Bit Microcontrollers	272356		8751BH, 8752BH: 8-Bit Microcontroller Programming Support		2586
8XC51GB CHMOS Single-Chip 8-Bit Microcontroller	272337		USER'S MANUALS		
8XC51SL/Low-Voltage 8XC51SL Keyboard Controller	272271		MCS® 251 Microcontroller - 8XC251SB User Manual	272617	
8XC152JA/JB/JC/JD Universal Communication Controller 8-Bit Microcontroller	270431		MCS® 48 Microcontroller Family User's Manual	272382	
8XC52/54/58 24 MHz Data Sheet	272643		MCS® 51 Microcontroller Family User's Manual	272383	
8XC51FX 24 MHz Data Sheet	272656		Embedded Microcontrollers and Processors Vols. I/II	270646	
8XC52/54/58 24 MHz CHMOS Single Chip 8-Bit Microcontroller	272643				
8XC51/54/58 33 MHz CHMOS Single Chip 8-Bit Microcontroller	272729				
8XC51 FX 33 MHz CHMOS Single Chip 8-Bit Microcontroller	272728				

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Intel has not evaluated the listed products of other companies, and does not recommend or endorse directly to verify function, prerequisites, price, availability and suitability for the user purpose.
NOTE: There are other companies whose products are not included in this guide. To be considered for inclusion in future updates, contact:

Intel Corporation
EMD Tools Group CH6 222
5000 West Chandler Blvd.
Chandler, AZ 85226

This information is also available on Intel's FaxBack System and electronic bulletin board system. Please see the North American Contact List section of this guide for contact numbers.

* Products listed are trademarks of the respective companies

Description	Vendor	8X3X	8X5X	8XC5X	8XC5XFX	8XC5XGX	8XC51RX	8XC51SL	80C251SB	US	Europe	APAC	Japan
Carrier/Proto-Adapter, Pkg. Converter	Ironwood Electronics	X	X	X	3X	3X		X		(612) 431-7025			
Adapter	ITT Pomona Electronics	X	X	X	X	X	X	X	X	(909) 469-2927			
Programming Adapter	Logical Systems Corp.		X		3X	3X			X	(315) 478-0722			
Logic Analyzer	NCI	X	X							(205) 837-6667			
Adapter	Tektronix, Inc.	X	X	X	X	X	X	X	X	(800) 426-2200	44 1662 848 6000		
Programmable Peripherals/Software	WSI, Inc.	X	X	X	X	X	X	X	X	(800) 832-6974	** (510) 656-5400		
SOFTWARE SPECIALTY TOOLS													
Timing Specification Software	Chronology Corp.	X	X	X	3X	3X				(800) 800-6494	** (206) 869-4227		
Network Software	Cimetrics Technology	X	X	X	3X	3X		X	X	(617) 350-7550			
Software Functional Libraries	Drumlin	X	X	X	X					(818) 244-4600			
Development Environment	IAR Systems	X	X	X	X	X				(415) 765-5500	46 18 16 78 00		81 (03) 293-4711
BASIC Programming Tools, Interpreter	MDL Labs	X	X	X	X					(614) 431-2675			
PL/M to C Converter	Micro-Processor Services, Inc.	X	X	X	X	X				(516) 499-4461			
Integrated Development Environment	Production Languages Corp.	X	X	X	3X	3X	X	X	X	(800) 525-6289	** (817) 599-8363		
Assembly Language Analysis Tool	Quantasm Corp.	X	X	X	3X	3X		X		(408) 244-6826			
Extended Linker	Raisonance	X	X	X	3X	3X		X			33 76 08 18 16		
Multi-Tasking Development Tool	U.S. Software	X	X	X	X					(800) 356-7097	** (503) 641-8446		
ApBUILDER (avail 4/95)	Intel Corporation	X	X	X	3X	3X		X	X	(800) 628-8686	See Below	See Below	See Below
										BBS (916) 356-3600			
Hypertext Manuals (avail 6/95)	Intel Corporation	X	X	X	3X	3X	X	X	X	(800) 628-8686	See Below	See Below	See Below
										BBS (916) 356-3600			
BOARD PRODUCTS													
X51 Target Board	Advanced Design Solutions	X	X	X						(404) 352-4788			
Evaluation Board	Binary Technology	X	X	X						(508) 369-9556			
Development Board	Ceibo Ltd.	X	X	X		X				(314) 830-4084	49 6151 27505	972-9-553297	
Single Board Computer	HiTech Equipment Corp.	X	X		X	X		X		(619) 566-1892			
Evaluation Board	Intel Corporation			X	X	X				(800) 628-8686	See Below	See Below	See Below
Evaluation Board	Iota Systems	X	X	X						(702) 831-6302			
Evaluation Board	Keil								X	(800) 348-8051	49 8946 5057	65-749-2162	
Evaluation Board	Microsys	X	X	X						(818) 244-4600			
Evaluation Board	New Micros	X	X	X						(614) 431-2675			
Single Board Computer	Rigel Corporation	X	X	X	X	X				(904) 373-4629	44 483 570722	603-2388213	81 (03) 289-9011
Development Board	Xicor	X	X	X	X	X				(408) 432-8888	44 99 384 4435	82-255-12-750	81-33-225-2004
FUZZY/NEURAL NETS													
Fuzzy/Neural Net	Inform Software	X	X	X		X				(800) 929 2815	49 2408 9456180		81 03 5688 6800
Fuzzy Logic Code Generator	Rigel Corporation	X	X	X		X				(904) 373-4629			
PROGRAMMING													
Programmer	Advin Systems		X	X		3X				(800) 627-2456	** (408) 243-7000		
Device Programmer	B&C Microsystems	X	X	X	3X	3X	X	X		(408) 730-5511			
PLD Programmer	BP Microsystems	X	X	X	3X	3X	X	X	X	(713) 688-4600			
Programmer	Ceibo Ltd.		X	X	X	X		X		(314) 830-4084	49 6151 27505	972-9-553297	
Programmer	Chronology Corp.	X	X	X						(800) 800-6494	** (206) 869-4117		
Programmer	Cimetrics Technology	X	X	X						(617) 350-7550			
Device Programmer	Data I/O Corporation	X	X	X	3X	3X	X	X	X	(800) 332-8246	49 8985 8580		81 033-432-6991
Programmer	Drumlin	X	X	X						(818) 244-4600			
Device Programmer	E.E. Tools	X	X	X	3X	3X				(408) 734-8184			
Universal Device Programmer	Elan Digital Systems	X	X	X	3X					(800) 541-3256			
Programmer	Emulation Technology		X	X	X	X				(408) 982-0660			
Programmer	iSYSTEM	X	X	X	X	X	X	X			49 8131 14024		
Device Programmer	Link Computer Graphics	X	X	X	X	X				(201) 808-8990			
Device Programmer	Logical Devices, Inc.	X	X	X	3X					(305) 428-6868			
Programmer	MDL Labs	X	X	X						(614) 431-2675			

Description	Vendor	8X3X	8X5X	8XC5X	8XC5XFX	8XC5XGX	8XC51RX	8XC51SL	80C251SB	US	Europe	APAC	Japan
Device Programmer	Minato	X	X	X	X					(800) 576-6068	**(916) 348-6066		81-455-91-5611
Programmer	Needham Electronics	X	X	X	3X	3X	X	X	X	(916) 924-8037	**(916) 924-8037		
Programmer	Quantasm Corp.	X	X	X						(408) 244-6826			
Programmer	Raisonance	X	X	X							33 76 08 18 16		
Programmer	SMS Mikrocomputer-System GmbH	X	X	X	3X	3X	X	X	X	(206) 883-8447	49 7522 97280	(85) 23-622309	81-3-3317-9911
Device Programmer	Stag Microsystems	X	X	X	3X					(408) 988-1118			
IC Programmer	System General	X	X	X	3X	X	X	X	X	(408) 263-6667			
EVALUATION KITS													
Project Builder 51	Intel Corporation	X	X	X	3X	3X		X		(800) 628-8686	See Below	See Below	See Below
Project Builder 251(Binary/Paged Mem)	Intel Corporation								X	(800) 628-8686	See Below	See Below	See Below
Project Builder 251(Source/Paged Mem)	Intel Corporation								X	(800) 628-8686	See Below	See Below	See Below
SOFTWARE DEVELOPMENT KITS													
Software Developers Tools	BSO/Tasking	X	X	X	X	X			X	(617) 320-9400	31-33-55-8584		81-334-050511
Software Developers Tools	Franklin Software, Inc.	X	X	X	X	X			X	(408) 296-8051			
Tool Extension Kit	Franklin Software, Inc.	X	X	X	X	X			X	(408) 296-8051			
Software Developers Tools	Keil	X	X	X	X	X			X	(800) 348-8051	49 8946 50-57	65-749-2162	
Tool Extension Kit	Keil	X	X	X	X	X			X	(800) 348-8051	49 8946 50-57	65-749-2162	
Software Developers Kit	Production Languages Corp.	X	X	X	X	X			X	(800) 525-6289	**(817) 599-8363		
CAN Development System	Systronix, Inc.	X	X	X						(801) 534-1017			
FUZZY LOGIC													
FUZZY Logic Development Kit	Inform Software Corporation	X	X	X	X	X	X	X	X	(800) 929 2815	49 2408 9456180		81 0356-8868-00
Real Time Remote Cross Debugger	Inform Software Corporation	X	X	X	X	X	X	X	X	(800) 929 2815	49 2408 9456180		81 0356-8868-00
NeuroFUZZY Module	Inform Software Corporation	X	X	X	X	X	X	X	X	(800) 929 2815	49 2408 9456180		81 0356-8868-00
FUZZY S/W & H/W Evaluation	Intel Corporation								X	(800) 628-8686	See Below	See Below	See Below
FUZZY Logic Development Kit	Intel Corporation								X	(800) 628-8686	See Below	See Below	See Below
FUZZY Dev. & Real Time Debugger	Intel Corporation								X	(800) 628-8686	See Below	See Below	See Below
NeuroFUZZY Development Kit	Intel Corporation								X	(800) 628-8686	See Below	See Below	See Below
EMULATOR RENTALS													
Emulator Rentals	AT&T Capital	X	X	X	X	X	X			(800) 874-1234	**(214) 456-4000		
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